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經濟部智慧財產局專利核駁審定書

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一、申請案號數:〇九〇一一二二七八

二、發明名稱:永久磁鐵型旋轉電樞

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六、優先權項目·

1 2000/05/24 日本2000-153387

爱信用发信曹 1918年 1918年 1929年 2月12日

專利分類IPC(7)···H02K 19/10



七、審查人員姓名:彭椏富 委員

主文:本案應不、審定內容:

依據:專利法第二十條第二項。主文:本案應不予專利。

理由:

(一)本案「永久磁鐵型旋轉電樞」,依說明書之說明係由收納在狹槽內部具有電樞線圈之定 為P,轉子半徑為R[m]時,以滿足PL/π2 Rwqave>=130關係所構成。 過部分(Q軸)交互地設置由空洞所形成之複數磁障壁,並在前記空洞內配置永久磁鐵 子鐵心所形成之定子,及位於前記定子內側磁束容易通過部分(d軸)與磁束不容易通 徑方向外側之轉子鐵心平均厚度設為Wqave[m],前記空洞周圍方向之寬度為L[m],極數 之轉子鐵心形成轉子所構成,其特徵為:前記轉子在前記Q軸方向所配置空洞之轉子半

(二)本案之永久磁鐵型旋轉電樞之申請專利範圍,已見於1999年01月07日歐洲專利公告編號 permanent magnet」,說明書全部及圖式第一至三十八圖;1999年12月28日美國專利公 第EP0889574號(如附件一),名稱「Reluctance type rotating machine with 中有關圖式第一圖之說明及圖式第一圖;1999年01月22日日本專利公告編號第JP11interior permanent magnet」,說明書Description of the preferred embodiments 告編號第US6008559號(如附件二),名稱「Motor using a rotor including an

第二頁

訂

式第一至六圖。已揭露本案永久磁鐵型旋轉電樞之技術內容及特點,本案係運用申請前 18328號(如附件三) ,名稱「永久磁石式同期電動機」 發明詳 細 説明 [0031]及圖

據上論結,本案不符法定專利要件,爰依專利法第二十條第二項,審定如主文

,而為熟習該項技術所能輕易完成者

,故不具進步性

既有之技術或知識





五 整(如不 一十頁計 專利說 服 本審定 , 明書及圖式合計在五十頁以 向本局申請再審查 , 得於文到之次日起三十 · 日 內 上者,每五十頁加收新台幣五百元,其不足五十頁者 備具再審查 理由書一式二份及規費新台幣陸仟元 依照分層負責規定授權單位主管決行 以

(Translation)

DECISION OF REJECTION

Taiwan Patent Application No.: 9011278

The present application is rejected under Section 20 (2) of the Patent Law.

REASON:

1. According to the specification of the present application, a claimed

permanent magnet type reluctance electric motor is characterized by

comprising: a stator including a stator iron core and having armature coils

placed inside slots; and a rotor provided with a plurality of magnetic barriers

formed by cavities and placed on an inner side of the stator in such a manner

that sections where magnetic flux can easily pass (d-axis) and sections where

magnetic flux cannot easily pass (q-axis) are alternately formed, and made of a

rotor iron core having permanent magnets in the cavities, wherein the rotor

satisfies the relationship of PL / $2\pi RW_{\mbox{qave}} \;\Box\; 130$, where $W_{\mbox{qave}} \;[\mbox{m}]$ indicates

the average thickness of the rotor iron core on the outer side in the radial

direction of the rotor with respect to the cavities arranged in the q-axis

direction, L [m] indicates the width in the circumferential direction of the

cavities, P indicates the number of poles and R [m] indicates the radius of the

rotor.

2. The permanent magnet type reluctance electric motor claimed in the

present application is disclosed in:

European Patent Publication No. EP 0889574A1 (Attached document

1: dated January 7, 1999; title of the invention "Reluctance type rotating

machine with permanent magnet"), the whole portion of the specification and FIGS. 1-38;

U.S. Patent Publication No. 6,008,559 (Attached document 2: dated December 28, 1999; title of the invention "Motor using a rotor including an interior permanent magnet"), FIG. 1 and its pertinent description in the Description of the Preferred Embodiment; and

Jpn. Pat. Appln. KOKAI Publication No. 11·18328 (Attached document 3: dated January 22, 1999; title of the invention "Permanent magnetic type synchronous motor"), the Detailed Description of the Invention in paragraph 0031 and FIGS. 1–6.

Thus, the technique and feature of the permanent magnetic type reluctance electric motor of the present application is disclosed in the references, and the present invention can be easily obtained by one having ordinary skill in the art. Therefore, the present invention does not involve an inventive step.

As concluded above, the present application does not satisfy the requirements of patentability, so is rejected under Section 20 (2) of the Patent Law.

If there is any objection against this decision, a request for reexamination can be filed with the Taiwan Patent Office within 30 days of the mailing date hereof, along with two copies of a set of Reason for Reexamination and the official charge of NT \$6,000. (If the total number of pages of the specification and drawings is over 50, NT \$500 is additionally charged for

every 50 pages. If the total number of pages is less than 50 pages, it is calculated as 50 pages.)